SONY

3-753-363-21 (1)

Stereo Cassette Deck

Operating Instructions

~~TC-K670~~

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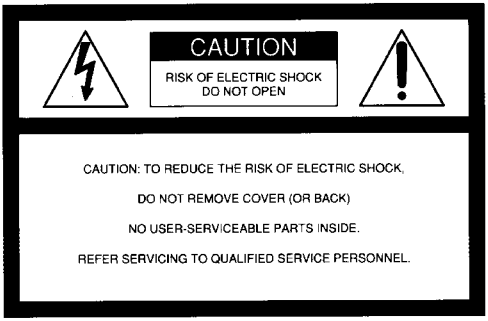
WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

* The graphical symbols are on the rear enclosure.

INFORMATION

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient the receiving antenna
Relocate the equipment with respect to the receiver
Move the equipment away from the receiver
Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:
"How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

Owner's Record

The model and serial numbers are located at the rear. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. TC-K670 Serial No. _____

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Features

For higher quality recording/playback

- **The Dolby HX PRO* system** which improves the linearity of the tape's high-range response during recording.
- **B and C type Dolby NR* systems** which reduce tape noise.
- **Bias and recording level calibration** which ensures optimum recording conditions to bring out the best in every tape.
- **Three-head system (separate recording, playback and erase heads)** which allows you to instantly check the recorded sound while recording is in progress.

For your convenience

- **The AMS and Memory Play functions** which provide easy access to a desired selection.
- **Timer-activated playback and recording** through the use of an optional timer.

For easier operation

- **Easy-to-read digital linear counter** which shows the elapsed recording or playing time.

* Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.

"DOLBY", the double-D symbol ⧈ and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

Precautions

On safety

- Operate the unit only on 120 V AC, 60Hz.
- Before operating the unit, be sure that the operating voltage of your unit is identical with that of your local power supply.
- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- Unplug the unit from the wall outlet if it will not be used for a long time. To disconnect the cord, pull it out by grasping the plug. Never pull the cord itself.

On operation

- When the unit is not used, turn the power off to conserve energy and to extend the useful life of your unit.
- Because of a safety mechanism, the function buttons will not operate if the cassette holder is not completely closed, if there is no cassette in the cassette holder, or if a cassette has been incorrectly inserted into the cassette holder.

On head cleaning

The head and tape path should be cleaned after every ten hours of operation. Dirty heads and a dirty tape path may cause:

— loss of high-frequency response
— loss of sound volume
— sound drop-out

If you have any questions or problems concerning your unit, please contact your nearest Sony dealer.

For detailed safety precautions, see the leaflet "IMPORTANT SAFEGUARDS".

Installation

Notes on Installation

- Place the unit with the front panel facing you in a location with adequate air circulation to prevent overheating of the unit.
- Do not place the unit:
  — near heat sources such as radiators or air ducts.
  — in places subject to direct sunlight, excessive dust, mechanical vibration or shock.
  — in an inclined position.
  — on a rug or other soft surfaces that would block the ventilation holes on the bottom of the unit.

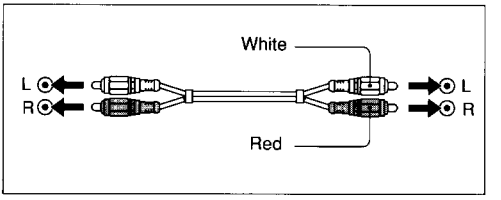
Do not throw away the carton and the packing material

They will come in handy when transporting the unit or shipping it for servicing.

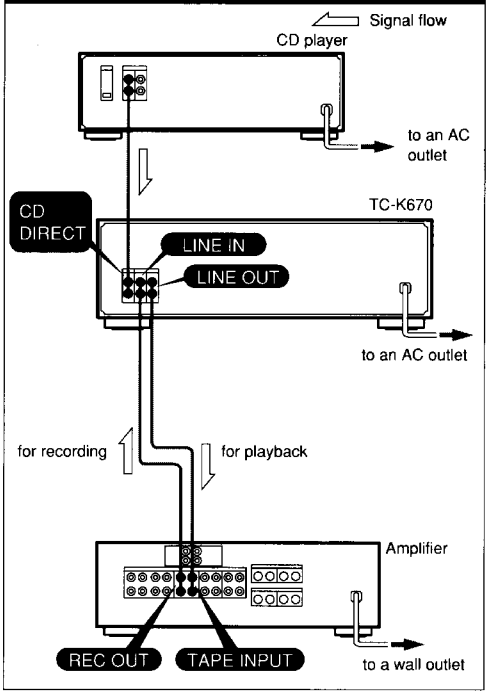
Connections

Notes on Connections

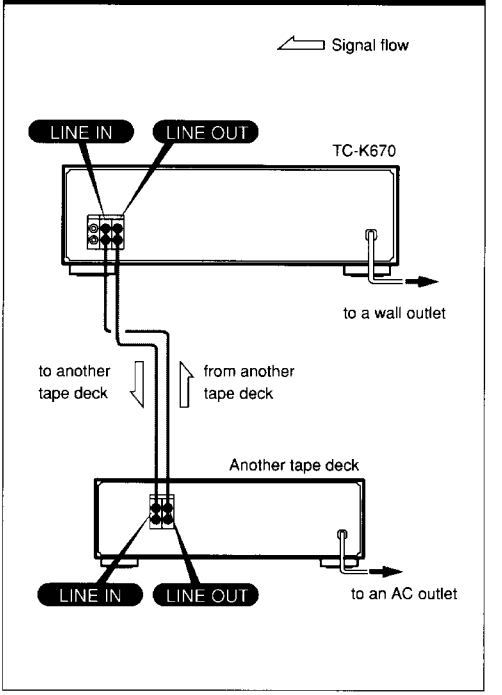
- Turn off the power to all equipment to be connected before making any connection.
- Note that the red plug of the supplied connecting cord is for right-channel (R) connection and the white plug for left-channel (L) connection.
- The connecting cords should be fully inserted into the jacks. A loose connection may cause hum pickup.



Basic Connection

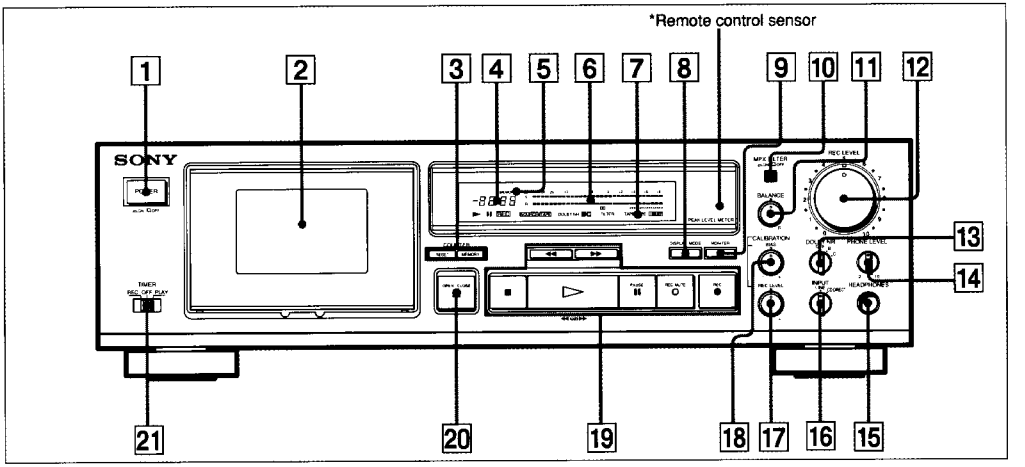


Connection for Tape Dubbing



Note on the CD DIRECT input terminal
Connecting a CD player or a DAT deck to the CD DIRECT input allows the sound signal of the connected unit to be directly input to the unit. Since this shortens the signal path, the result is higher sound quality. However, due to the shortened signal path, the BALANCE knob and MPX filter are rendered inoperative during input from the CD DIRECT input. If your CD player is equipped with two sets of outputs, connect one set to the amplifier and the other to the CD DIRECT input of this unit. You may then use the INPUT button to switch between CD DIRECT input or line input to suit your recording needs.

Identification of Front Panel Parts



For details, refer to the page number indicated in ●.

1 **POWER switch**

2 **Cassette holder**

3 **COUNTER buttons**
RESET button ❾
MEMORY button ❽ ❾

4 **LINEAR COUNTER ❾**

5 **MEMORY indicator ❽ ❾**

6 **PEAK LEVEL METER ⓫**

7 **TAPE TYPE indicator ❼**

8 **DISPLAY MODE button ❼**

9 **MONITOR button ⓫**

10 **MPX FILTER button ⓫**

11 **BALANCE control ⓫**

12 **REC (recording) LEVEL control ⓫ ⓬**

13 **DOLBY NR (noise reduction) switch ❼ ⓫**

14 **PHONE (headphones) LEVEL control ❼**

15 **HEADPHONES jack (stereo phone jack) ❼**

16 **INPUT button ⓫**

17 **REC (recording) LEVEL control for calibration ⓬**

18 **BIAS control ⓬**

19 **Tape operation buttons**
◀◀ (rewind) button
▶▶ (fast-forward) button
■ (stop) button
► (play) button
II PAUSE button
O REC MUTE (record muting) button ⓭
● REC (recording) button

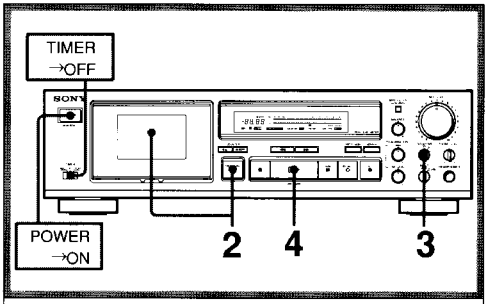
20 **≜ OPEN/CLOSE button**

21 **TIMER switch ⓭**

***Remote control sensor**
You can remotely control this cassette deck with:
— A remote commander that came with a Sony amplifier or receiver if it has the F mark and cassette deck control capability.
— An optional Sony remote commander with the F mark and cassette deck control capability.

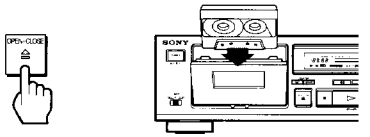
Playing Back

Follow the procedure below to play back a cassette.

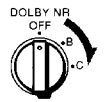


1 **Turn on the amplifier and select the tape function.**

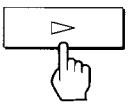
2 **Insert a cassette.**



3 **Set DOLBY NR to the same position that was used when the cassette was recorded.**



4 **Start playback.**



To stop playback, press the ■ button.
To stop playback momentarily, press the ❚❚ button.
To restart playback, press the ❚❚ or ► button.
To fastwind a tape rightward, press the ►► button in stop mode.
To fastwind the tape leftward, press the ◄◄ button in stop mode.

Selecting the display mode
You may choose among three display modes by pressing the DISPLAY MODE button: (1) all indicators are displayed; (2) the counter, tape operation and MONITOR indicators are displayed; or (3)no display.

The TIMER switch must be set to OFF
Otherwise, recording or playback will start automatically when the power is turned on.

Is it necessary to set the tape type being used?
No. The deck has an automatic tape type detection system.

To start operations while the cassette holder is open
Operations may be started while the cassette holder is open. For example, when the ► button is pressed while the cassette holder is open, the cassette holder will close and playback will start. Similarly, pressing the ◄◄, ►►, or ❚❚ buttons while the cassette holder is open will close the cassette holder and start the respective operation.

To change to recording mode during playback
Keeping the ► button pressed, press the ● button. The unit immediately switches from playback to recording without stopping the tape. This is useful when editing previously recorded material.

For headphone listening
Connect the headphone plug to the HEAD PHONES jack. The listening level can be controlled with the LEVEL control.

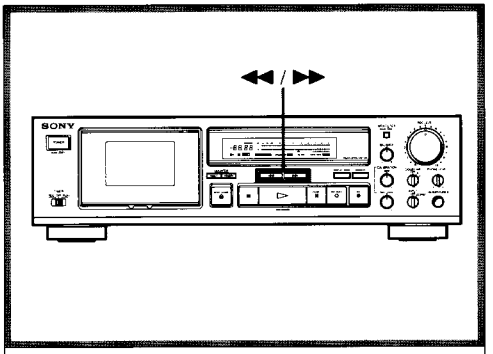
Is it necessary to set the MONITOR button for playback?
No. The TAPE mode is automatically selected and TAPE is displayed.

What is Dolby NR system?
The Dolby NR (noise reduction) system reduces tape hiss noise in low-level, high-frequency signals by boosting the signals during recording and lowering them during playback.

Note
The Dolby HX Pro system is effective only during recording, not during playback.

Locating a Selection
— Automatic Music Sensor (AMS)

The AMS function detects the blank space between selections, allowing you to quickly locate the beginning of desired selections.



During playback, press ▶▶ or ◀◀ referring to the following table.

Desired selection	
Next selection	Selection being played
▶▶	◀◀

The play indicator flashes while the AMS searches for the beginning of the selection. After locating the beginning of the selection, playback will start automatically.

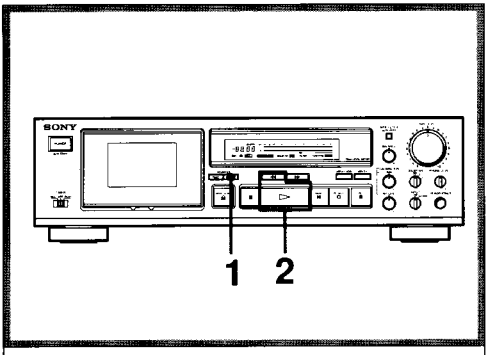
To ensure proper operation of the AMS
There must be a blank of four seconds or longer between selections. Use the record muting function to insert a blank space when recording.

The AMS may skip a selection in the following cases:
- If the ▶▶ (or ◀◀) button is pressed immediately before the following selection.
- If there is noise in the space between selections.
- If the space is less than four seconds long.

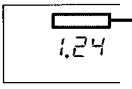
The AMS will treat the following as blanks:
- a long pause in the music
- a passage of low frequencies or very low volume
- a gradual increase or decrease in volume

Playing Back Automatically after Rewinding — Auto Play

The Auto Play function automatically starts playing back a cassette after fast winding it to the beginning.

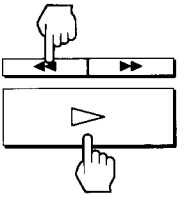


1



Make sure the MEMORY indicator is off. If it is not, press MEMORY.

2

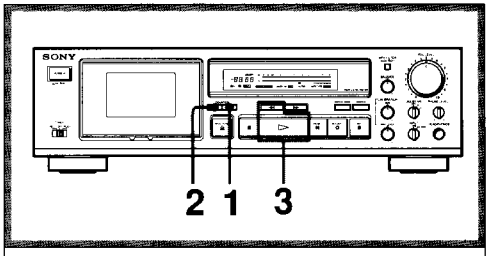


While pressing ▶, press ◀◀.

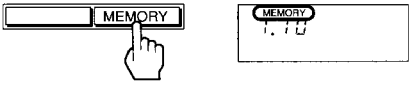
After the tape is completely rewound, the unit will automatically start playback.

Locating a Desired Position Using the Counter
— Memory Play

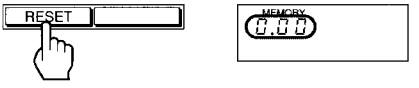
The Memory Play function allows you to use the counter to record a desired position on a cassette for fast relocation and automatic playback later.



1 **Activate the Memory Play function.**

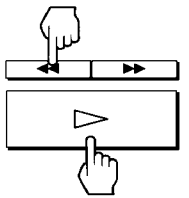


2 **At the desired position, reset the counter.**



The desired position is memorized.

3 **To return to the desired position**
While pressing ▶, press ◀◀.



Returning to the memorized position in stop mode — Memory stop
If you press only the ◀◀ button when the MEMORY indicator is on in the stop mode, the tape rewinds and the unit stops when the counter reaches 0.00.
Be sure to first stop playback before activating the Memory Stop function, otherwise the AMS function will activate.

To deactivate the Memory Play function
Press the MEMORY button, turning off the MEMORY indicator.

The Accuracy of the Digital Linear Counter

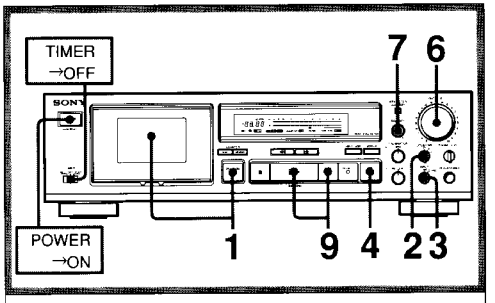
Since the counter is not a digital clock, the number will differ from the actual elapsed playback or recording time by a few minutes, depending on such factors as tape length and hub size.

Note on Memory Play/Stop
In actuality, the tape is rewound to slightly short of 0.00.

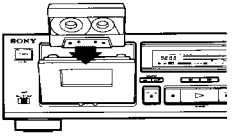
Do not turn off the power while using the counter
Turning the power off, then on again resets the counter to 0.00.

Recording

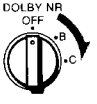
Follow the procedure below to record a source on a cassette.



1 **Insert a cassette with the side to be recorded facing forward.**



2 **Select the Dolby NR setting.**

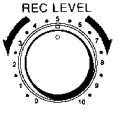


3 **To record the CD program source through the CD DIRECT input terminal, set INPUT to CD DIRECT.**

4 **Place the unit into recording pause mode.**

5 **Play the program source to be recorded.**

6 **Adjust the recording level.**



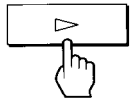
See **Adjusting the Recording Level** on page 11.

7 **Adjust the balance.**

8 **Restart the program source, if required.**

9 **Start recording.**

or



To stop recording
Press the ■ button.

If playback starts instead of recording
The cassette tab has been removed. To record on this cassette, cover the hole with plastic tape. (See page 12.)

The TIMER switch must be set to OFF
Otherwise, recording or playback will start automatically when the power is turned on.

Is it necessary to set the MONITOR button for recording?
No. The source mode is automatically selected and SOURCE is displayed. If you wish to monitor the recorded sound, press the MONITOR button to select the TAPE mode.

To start recording while the cassette holder is open
If you press the ● button while the cassette holder is open, the holder will close automatically and the unit will switch to recording pause mode. This function allows you to start recording at a moment's notice.

Checking the recording time on a tape
To check the remaining recording time on a tape:
1 Press the RESET button to reset the counter to 0.00.
2 Press ▶▶ to advance the tape to its end. The number on the counter shows the approximate recording time.

To check the total recording time of a tape, first rewind the tape to its beginning, then follow the same steps as above.

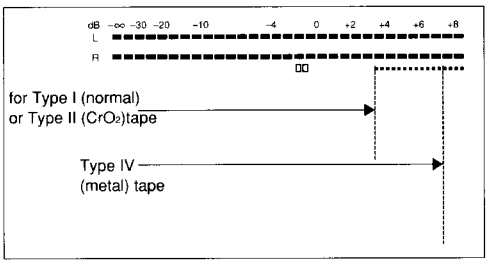
Recording FM Broadcasts with the Dolby NR System

When recording FM broadcasts with the DOLBY NR system, set the MPX FILTER button to ON (the "FILTER" indicator appears).
The MPX filter eliminates remnants of the 19-kHz stereo carrier and 38-kHz subcarrier signals which may impair the operation of the DOLBY NR system. Be sure that the Dolby NR switch is turned on since the MPX filter will not function otherwise. During recording with the Dolby NR system, use this button only if the tuner is not equipped with its own MPX filter or the equipped filter does not function effectively.

Adjusting the Recording Level

The optimum recording level, which differs according to the tape type, is indicated on the PEAK LEVEL METER for each tape type.
Adjust the REC LEVEL control as high as possible without exceeding the recommended range for the tape type being used.

Recommended maximum PEAK LEVEL METER reading



Tips on recording level adjustment

- If the recording level setting is too high, the recording will be distorted; if it is too low, the tape will produce a hissing sound. Therefore, the recording level should be set as high as possible without causing distortion.
- If the program source to be recorded has many high frequency signals, set the level to a relatively low position.

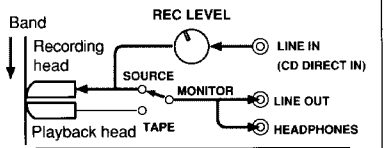
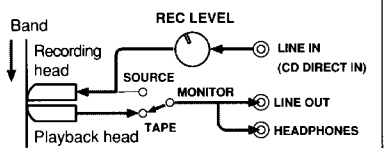
Monitoring the Recorded Sound

As this unit has three separate heads for recording, playback and erasure, you can check the quality of a recorded sound by comparing it with the input source signal.

To listen to the input source signal, set the MONITOR button to SOURCE.
To listen to the sound recorded on the tape, set the MONITOR button to TAPE.

While recording, use this monitoring function to check that there is no distortion due to excessive level settings or sound degradation due to head contamination.

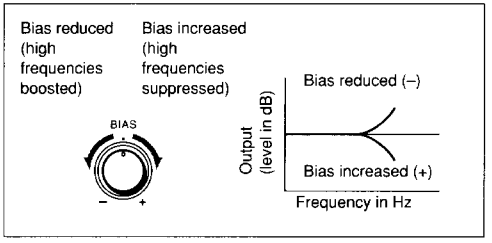
MONITOR button setting and signal flow

MONITOR setting	Signal flow
SOURCE	
TAPE	

Bias and Recording Level Calibration

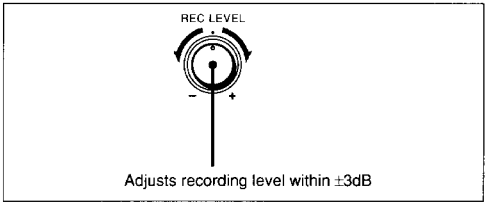
Bias calibration

To obtain the optimum frequency response, use the BIAS control to adjust the bias current according to the tape type being used. Reducing the bias boosts high frequencies but increases distortion. Increasing the bias decreases distortion but suppresses high frequencies. Balance the bias according to your listening preference.



Recording level calibration

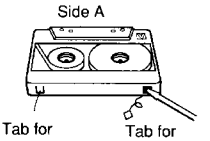
Even when the recording level is adjusted correctly, using a tape with low sensitivity will result in a low playback level. The REC LEVEL calibration control allows you to compensate for sensitivity differences among tapes to equalize both recording and playback levels. This is especially important when using the Dolby NR system, since it is most effective when recording and playback levels are the same.



To Protect a Recording

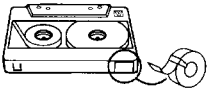
To protect a recording on side A or B

Break out the respective tab.



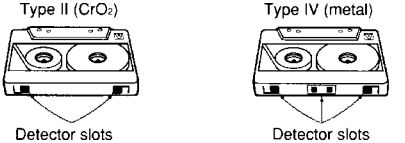
To recover a cassette for recording

Cover the respective slot with tape.



When using Type II (CrO_2) or Type IV (metal) cassettes

Be careful not to cover the detector slots which are necessary for automatic tape detection.



Cassette care

- Avoid touching the tape surface of a cassette to prevent contamination of the heads by dirt, dust, or oil on the skin.
- Keep cassettes away from equipment with magnets, such as speakers and amplifiers, as erasure or distortion on the recorded tape could occur.
- Do not expose cassettes to direct sunlight, extremely cold temperatures or moisture.

Note on cassettes longer than 90 minutes

The use of cassettes longer than 90 minutes is not recommended except for long continuous playback.

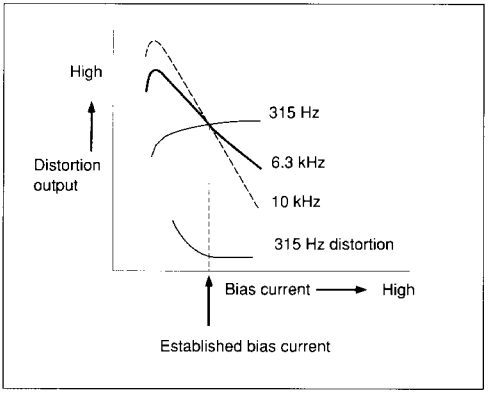
Note

In the case of Type IV cassette tapes, the frequency change for any given bias setting will be minimal.

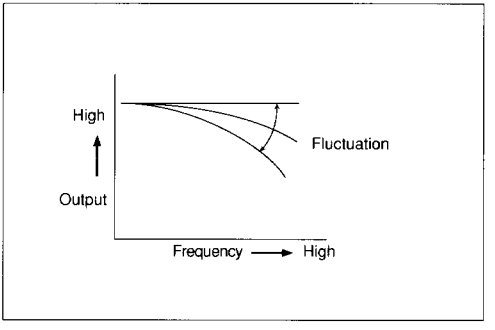
Inserting a Blank Space during Recording
— Record Muting

What is the Dolby HX PRO System?

The Dolby HX PRO system provides improved linearity in high-range frequency response during recording. Tapes recorded with this system retain the same high quality even when played back on other tape decks.

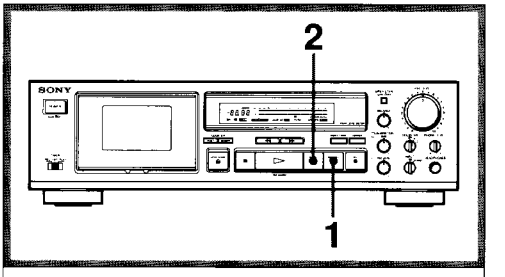


As shown above, characteristics such as output level and distortion differ widely according to the bias (high-frequency) current. In conventional systems, the bias current is susceptible to variations in certain recording signals (see diagram below) which may cause fluctuations in frequency response, distortion, or other unwanted characteristics.

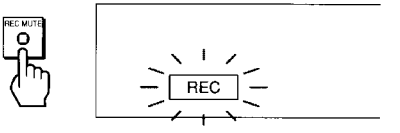


With the Dolby HX PRO system, the effective bias amount added to the bias current is controlled in millisecond units to greatly reduce distortion, improving linearity in high-range response and ensuring high-intensity recording with minimal distortion and noise.

The Record Muting function allows you to insert a four-second blank to enable proper AMS operation (see page 8), and to replace unwanted input with a blank of any desired length.



1 While recording, press O and release it immediately.



The REC indicator starts to blink. During this time, no incoming signals are recorded on the tape. After four seconds, the ❚❚ indicator lights up and the unit enters recording pause mode.

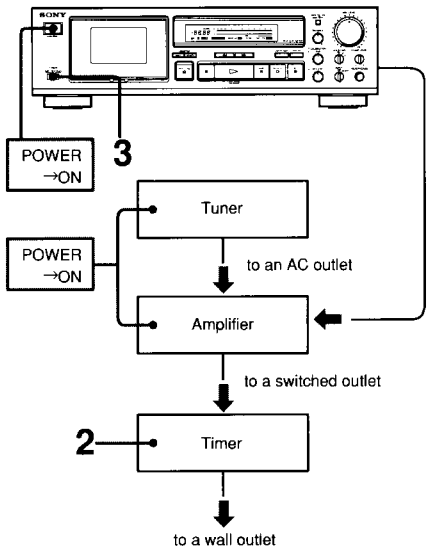
2 Resume recording.

To create a blank longer than four seconds

Press the O button for the desired length of time. After four seconds, the REC indicator blinks with greater rapidity. When you release the O button , the ❚❚ indicator lights up and the unit goes into recording pause mode.
Press the ❚❚ button to resume recording.

Timer-Activated Playback and Recording

By connecting an optional timer, recording or playback can be performed automatically at a preset time.



1 Prepare the unit for playback or recording.

For playback	Follow steps 1 through 3 on page 7.
For recording	Follow steps 1 through 7 on page 10.

Close the holder completely.

2 Set the timer to the desired time.
Power to the tape deck will be cut off.

3 Set the deck's TIMER switch to PLAY or REC.
Playback or recording will start at the preset time.

Keep the POWER switch on the unit on
When the timer is set, the power to the unit will be cut off. However, the POWER switch must be on to start timer-activated operation.

When the timer-activated operation is completed
Set the TIMER switch on the unit to OFF. If the TIMER switch is left at REC, the unit will automatically start recording the next time the power is turned on, and the previously recorded material may be erased.

Maintenance

Cleaning the Heads and Tape Path

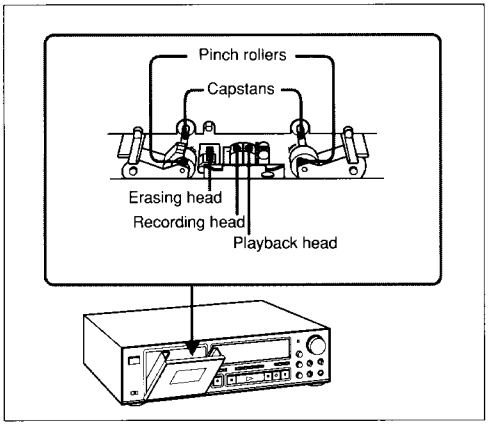
Clean all surfaces over which the tape travels after every ten hours of operation to guard against:
— low-quality sound
— a decrease in sound level
— excessive wow, flutter or drop-out
— incomplete erasure
— impairment of recording function

To obtain high-quality recorded sound, cleaning before every recording is recommended.

1 Keeping the power on, turn the volume control on the amplifier to minimum.

2 Press ⏏ to open the cassette holder.

3 Wipe the heads, the pinch rollers and the capstans with a cotton swab slightly moistened with alcohol or commercially available cleaning fluid for tape decks.



Do not insert a cassette until the cleaned areas are completely dry.

Demagnetizing the Heads

After 20 to 30 hours of use, or when you notice hiss and/or loss of high frequencies, the residual magnetism built up on the heads should be removed.

1 Keeping the power on, turn the volume control on the amplifier to minimum.

2 Press ⏏ to open the cassette holder.

3 Demagnetize the heads with any commercially available demagnetizer.

Refer to the instruction manual of the demagnetizer for detailed instructions.

Cleaning the Cabinet

Clean the cabinet, panel and controls with a soft cloth slightly moistened with a mild detergent solution.
Do not use any type of abrasive pad, scouring powder or solvents such as alcohol or benzine.

Specifications

Recording system	4-track 2-channel stereo
Fast-winding time	Approx. 90 sec. (with Sony C-60 cassette)
Bias	AC bias
Heads	Erasing head × 1 (S&F head) Recording head × 1 (SD head) Playback head × 1 (SD head)
Motors	Capstan motor × 1 (DC servo motor) Reel motor × 1 (DC motor) ASIST(Mechanical drive) motor x 1 (DC motor)

Signal-to-noise ratio (at peak level)

Dolby NR switch / Cassette	OFF	B-Type ON	C-Type ON
Type IV(Sony METAL-SLT)	60dB	69 dB	75 dB
Type II(Sony UX-S)	59 dB	68 dB	74 dB
Type I(Sony HF-S)	57 dB	66 dB	72 dB

Total harmonic distortion
1.0% (with Sony METAL-SLT cassette)

Frequency response (DOLBY NR OFF)

Type IV cassette (Sony METAL-SLT)	20–20,000 Hz (±3 dB, IEC) 20–16,000 Hz [±3 dB, 0 VU (-4 dB) recording]
Type II cassette (Sony UX-S)	20–18,000 Hz (±3 dB, IEC)
Type I cassette (Sony HF-S)	20–17,000 Hz (±3 dB, IEC)

Wow and flutter ±0.09% W.Peak (IEC)
0.05% WRMS (NAB)
±0.14% W.Peak (DIN)

Inputs

Line inputs (phono jacks)	Sensitivity	77.5 mV
	Input impedance	47 k ohms
CD DIRECT INPUT	Input impedance	47 k ohms

Outputs

Line outputs (phono jacks)	Rated output level	0.32 V at a load impedance of 47 k ohms
	Load impedance	Over 10 k ohms
Headphones (stereo phone jack)	Output level	0–1.25 mW at a load impedance of 32 ohms

General

Power requirements	120 V AC, 60 Hz
Power consumption	19 W
Dimensions	Approx. 430 × 123 × 300 mm (w/h/d) ($17 \times 4^{7}/_{8} \times 11^{7}/_{8}$ inches) including projecting parts and controls
Weight	Approx. 4.9 kg (10 lbs 13 oz)

Supplied accessories
Audio connecting cords (2)

Design and specifications subject to change without notice.

Troubleshooting Guide

The following trouble checks will help you correct the most common problems encountered with your tape deck. Should any problems persist after you have made these checks, consult your nearest Sony dealer.
Before proceeding with these trouble checks, verify that:

- The power cord is firmly connected.
- Amplifier connections are firmly made.
- Heads, capstans and pinch rollers are clean.
- The amplifier controls and switches are set correctly.

Function buttons and tape transport problems

Symptom	Cause	Remedy
The function buttons do not activate.	The cassette is not properly inserted.	Insert cassette correctly.
	Button was pressed immediately after the power was turned on.	Wait until the ❚❚ indicator stops blinking.
Playback or recording begins when the power is turned on.	The TIMER switch is not set to OFF.	Set the TIMER switch to OFF.
The ● button does not activate.	There is no cassette in the holder.	Insert a cassette.
	A tab has been removed from the cassette.	Cover the slot with tape (page 12).
Automatic shut-off mechanism activates before the tape comes to its end.	The tape is slack.	Take up the tape slack.
	The cassette shell is deformed.	Use another cassette.
	The Memory Play function is activated.	Press the MEMORY button to deactivate the function.
Excessively loud tape transport noise during fast winding.	This noise is caused by the cassette and does not signify a mechanical problem.	—
The cassette holder will not close.	There has been a power failure or the power cord has been disconnected while the cassette holder is open.	Reconnect the power.
The ⏏ button does not function.	There has been a power failure or the power cord has been disconnected.	Reconnect the power.

(Continued on next page.)

Troubleshooting Guide

(*Continued from previous page.*)

Recording and playback problems		
Symptom	**Cause**	**Remedy**
Recording or playback cannot be made or there is a decrease in sound level.	The heads are either dirty or magnetized.	Clean or demagnetize the heads.
	Improper connection.	Make connections properly (page 5).
	Improper setting of the amplifier controls.	Set the amplifier controls to the appropriate positions.
Excessive wow, flutter or drop-out.	The head, capstan or pinch roller is dirty.	Clean in accordance with instructions (page 15).
Incomplete erasure.	The erasing head is dirty.	Clean the erasing head.
Increased noise or poor reproduction in high frequencies.	The head is magnetized.	Demagnetize the head.
Unbalanced tone in high frequencies.	Improper setting of the DOLBY NR switch.	During playing back, set the switch to the same position used in recording.
	The unit is placed near a television set.	Move the unit away from the television set.
The desired selection cannot be located even though you activate the AMS.	There is noise in the space between selections. The space is less than four seconds long.	Rerecord the tape if you can, and insert a blank space of four seconds using the O button.
	The ▶▶ (or ◀◀) button was pressed immediately before the beginning of the following selection.	—
Playback begins in the middle of the selection when the AMS is activated.	The selection contains one of the following: — a long pause in the music — a passage of low frequencies or very low volume — a gradual increase or decrease in volume.	While the tape is playing, press the ▶▶ or ◀◀ button again.

Noise		
Symptom	**Cause**	**Remedy**
Hum noise.	The unit is stacked on or under the amplifier.	Separate the unit.
Noise is recorded.	The recording was made near equipment such as a television set or a color monitor, and interference has affected the recording on the tape and the Dolby NR system.	Move the unit away from the television set or color monitor.